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(54) Title: STEM-CELL, PRECURSOR CELL, OR TARGET CELL-BASED TREATMENT OF MULTI-ORGAN FAILURE AND RENAL DYSFUNCTION

(57) Abstract: Methods for the treatment of acute renal failure, multi-organ failure, early dysfunction of kidney transplant, chronic renal failure, organ dysfunction, and wound healing are provided. The methods include delivering a therapeutic amount of hematopoietic stem cells, non-hematopoietic, mesenchymal stem cells, hemangioblasts, and pre-differentiated cells to a patient in need thereof.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/09922

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : A61K 48/00, 38/00
 US CL : 424/93.1, 93.2, 93.21; 514/2

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 424/93.1, 93.2, 93.21; 514/2

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
 None

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
 Please See Continuation Sheet

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	KIM. J.H. et al. Co-transplantation of ex-vivo culture-expanded human mesenchymal stem cells and allogeneic hematopoietic stem cell transplantation-report of 12 cases. Blood. December 2002, Vol. 100, No. 11, meeting abstract 4234, see abstract.	19-23, 28-30 -----
Y	IMAI. E. et al. Can bone marrow differentiate into renal cells? Pediatr. Nephrol. 2002. Vol. 17, 790-794, see entire document.	1-7, 11-17, 31, 34-37
X	US 5,876,708 A (SACHS) 02 March 1999 (02.03.1999), see entire document.	1-3, 11, 13-16, 18-21, 28-30, 32-36 -----
Y		4-10, 12, 17, 22-27, 31, 37 -----
X		1-3, 11, 13-16, 19-21, 28-30, 34-36 -----
Y		4-10, 12, 17-18, 22-27, 31-33, 37



Further documents are listed in the continuation of Box C.



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"A" document defining the general state of the art which is not considered to be of particular relevance	"X"	document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
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"O" document referring to an oral disclosure, use, exhibition or other means		
"P" document published prior to the international filing date but later than the priority date claimed		

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INTERNATIONAL SEARCH REPORT

C. (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2002/0150561 A1 (KRAUS. M. et al.) 17 October 2002 (17.10.2002), see entire document.	6-7, 24-28, 31 -----

Y		8-10, 13-17, 34-37

INTERNATIONAL SEARCH REPORT

PCT/US04/09922

Continuation of B. FIELDS SEARCHED Item 3:

DIALOG-medicine database; BRS/EAST-USPatful, EPO, JPO, Derwint, PB-pubs

search terms: mesenchymal stem cells, hematopoietic stem cells, bone marrow, epo, kidney, renal, renal failure, transplant?, graft?, implant?

INTERNATIONAL SEARCH REPORT

INFORMATION ON PATENT FAMILY MEMBERS

Int'l	Application No
PCT/US2004/003382	

Patent document cited in search report	Publication date		Patent family member(s)	Publication date
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